

ABSTRACT OF THE DISCLOSURE

The present invention provides a control device of a position control motor for preventing step out of the position control motor, wherein the heat generated by the position control motor is small and the energy efficiency is good. The device is constituted by a detection portion 2 detecting the rotor position of a position control motor 1, first and second control portions 3 and 4 outputting signals corresponding to a current to be supplied to the motor winding based on the deviation between the position detection signal and a command position signal, first and second distribution adjusting portions 5 and 6 distributing the output signals of the first and second control portions 3 and 4, a signal synthesis portion 7 synthesizing by vector addition the output signals distributed by the first and second distribution adjusting portions 5 and 6, and an amplification portion 8 outputting the synthesized output signal to the motor winding, and the device controls the position of the motor with the command position signal. The first control portion 3 monitors the deviation between the command position and the rotor position that is detected, and based on the amount of this deviation (electrical angle), switches to one of two modes, preventing step down.